Work Ord Friday, October											Page 1	i
Item ID: Revision ID: Item Name:	D4146-1 Fitting			Accept					Setup S	1 (88)		<del></del>
Start Date: Required Date: Reference:	10/8/2010 10/15/2010	Start Qty: 4.00 Req'd Qty: 4.00	1 10011 141 150 1 10011 140 160		Cust Item I Customer:	ID:						
Approvals:	Process Plan	n:	Date://0/08 Date:	Tooling: SPC (Y/N):		ate:		I		tart            top		
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Numb	-	
Draw Nbr D4146	Revi A	ision Nbr										
Doosan Lathe		<b>Memo</b> TURN AS F FOLIO REV DWG REV:		0.00 0.00 976		M	ATERIAL REOD !!	5. CERTIFI PON CEL	CATION IVERY		J.FS	- `~ 10/10/24
		DEBURR										·
110 QC		QC2- Inspect parts off m	nachine FAI/FAIB	0.00				5	_0_		J.F.	5. 10/10/2

Quality Control

## **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	OCEDURE CH	ANGE	Ву	, D	ate Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
				The state of the s				T Tod Wigt					
						į							
Part No	:	PAR #:	Fault Cat	egory:	NCR: Y	es No	DQA:	Date:					
		solution:	Disposition:				ed:	Date: _					
NCR:		,	WORK ORE	DER NON-CONFORM	MANCE (N	ICR)		· · · · · · · · · · · · · · · · · · ·					
DATE	STEP	Description of NC		ection B		Verification	Approval	Approval					
	JIL!	Section A	Initial Chief Eng	Action Description Chief Eng		gn & late	Section C	Chief Eng	QC Inspector				
						į							
			·										

### Work Order ID 62810

Friday, October 08, 2010 10:38:27 AM



Page 2

Item ID:

D4146-1

Fitting

Accept

Setup Start

Stop

**Item Name:** 

**Revision ID:** 

**Start Date:** 10/8/2010

**Required Date: 10/15/2010** 

Start Qty: 4.00

Rea'd Otv: 4.00



**Cust Item ID:** 

**Customer:** 

Reference:

Approvals:

Process Plan:

Operation

Date: \_\_\_\_\_

**Tooling:** 

Date:

Date:

Run

Start

Stop



Date: \_\_\_\_\_

SPC (Y/N):

Set Up/

**Run Hours** 

**Tool ID** 

Tool # Plan

Code

Accept Qty

Reject Reject Qty Number

Insp. Stamp

Work Center ID

120

Sequence ID/

Description

QC8- Inspect parts - second check

Memo

0.00

0.00

for/10.10.29

Quality Control

130

Packaging

Packaging

0.00

Memo

0.00

(0.10.29 (5) Cery11/01(8)

140

QC

Quality Control

QC21- Final Inspection - Work Order Release

0.00

Memo

0.00

-MF<sub>10-11-67</sub>

A.10.10.29 \_\_\_\_

Dart Aerospac	e Ltd
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W/O:			WORK ORDER CHANGES										
DATE	STEP	PRO	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
						W.J							
							,						
								\914					
Part No		PAR #:	Fault Cate	jory:	NCR: Yes	No <b>DQ</b>	A:	_ Date: _					
Resolution:			Disposition	QA: N/C CI	osed:								
NCR:			WORK ORDE	ER NON-CONFORM	ANCE (NCF	1)							
DATE	STEP	Description of NC	Initial	ction B		ification Approval		Approval					
		Section A	Chief Eng	Action Description Chief Eng	Date	Secti	ion C	Chief Eng	QC Inspector				
					ŀ								
<del></del>													

## **Picklist Print**

Friday, October 08, 2010 10:38:31 AM

Work Order ID: 62810

Parent Item:

D4146-1

Parent Item Name: Fitting



**Start Date:** 10/8/2010

**Required Date:** 10/15/2010

Page 1

Start Qty: 4.00

Required Qty: 4.00

Comments:

IPP REV:A NEW ISSUE 10-10-05 JLM VERIFIED BY:DD

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
M303R1.000	<b>2</b> 111 <b>25</b> 111 <b>25</b> 11 <b>25</b> 11 <b>25</b> 11	Purchased	No			100	f	28.0560	0.1666	0.701474			
303 Round Bar 1.00										J.F.S.	10/,	10/29	7

<u>Location</u>	Loc Oty	Loc Code		
MAT	24			
(115774)	24		0,876842	(5)
MAT028	4.056			
113325	4.056			

# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES												
DATE	STEP	PRO	CEDURE CH	Ву	Date Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector							
			TR V. S. A.	·			Ргод мідг							
		}												
Part No	•	PAR #:	Fault Cat	egory:	_ NCR: Yes I	No DQA:	Date: _							
		esolution:	Dispositi	on:	_ QA: N/C Clo	sed:	Date: _							
NCR:		\	WORK ORE	DER NON-CONFORMA	NCE (NCR	)		·						
DATE	STEP	Description of NC		Corrective Action Secti		Verification	Approval	Approval						
DAIL	SILP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector						
÷	ļ													
	}													
			·											
								-						

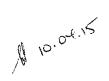
DART AEROSPACE LTD	Work Order: 628/0
Description: Fitting	Part Number: D4/46 - /
<u> </u>	
Inspection Dwg: D4/46 Rev: A	Page 1 of 1

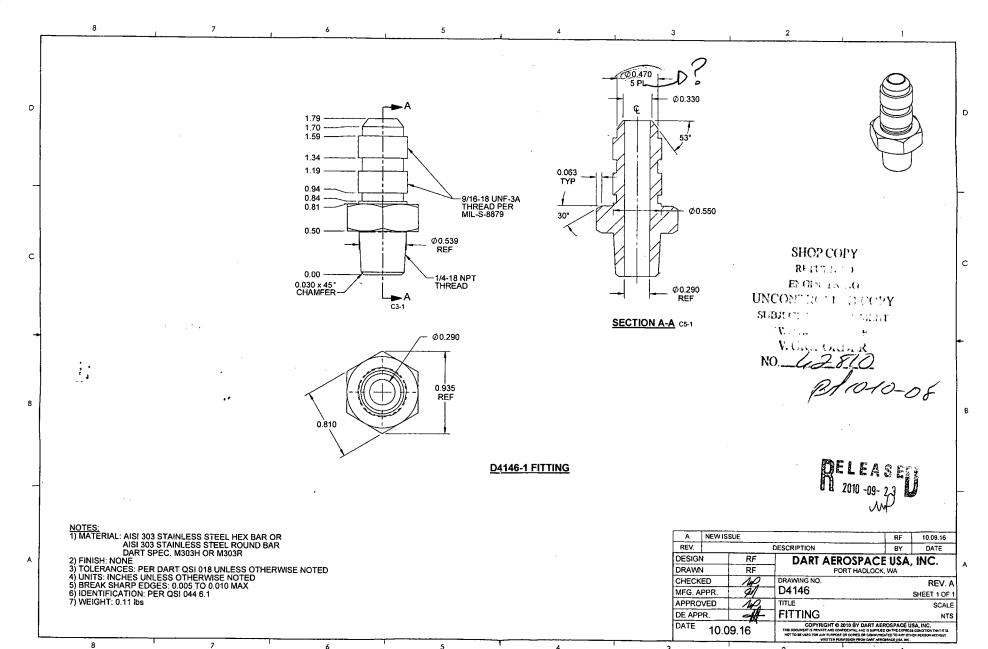
## FIRST ARTICLE INSPECTION CHECKLIST

Drawing	Tolerance	Actual	Accept	Reject	Method of	Comment	·e
Dimension	10.0.0.00	Dimension		Reject	Inspection		.5
00,290"		0,293"			vern.	J.F0	5
0,810"	+/-,010"	0,810"	/		ce 11	10	1 1
00 550"	7-,010"	00,556			11 11	" (	1 1
00,470"	7-,010"	00,469	<b>V</b>		a c	//	٠(
00,330"	1/- ,010"	Ø0,340°	/		a c	11	t y
0.063	t/- ,010"	Ø0,055°			rc	//	"
1. 79"	1/- 1030"	1,792"			( )	re	. (
1,70	+/- 030"	1,708	/		۲۱ ۲۱	f C	٠ ر
1.59"	+1- 030"	1,591"			10 15	č (	١,
1.19"	+/- ,030"	1,197"	<u></u>	-	(( ))	(/	٠,
0.84"	+/- ,030"	0,847"			1( ''	r c	1 1
0.81	+/- ,030"	0,819"			11	٠,	l į
0,50"	+/-,030"	0,504"			Cl IC	"(	``
Ø,539°	+/- 1010"	Ø,535°			tt cc	"(	•
9/16"-18 UNF.	BA NIA	9/16-18			Fillet Gage		
M.O.W.	Max: 0.574 Min:0.5	71"0,574"			Micro	J.F 0	) ]
Major. Ø	Max:0,562 Mig:0,55	4.00.558			FC C.	J.F 0	1
1/4" NPT	NIA	1/4" NPT			Fillet Gage		
Handtight Engage	1 Turn	0 236"			Vern.	J.F 8	25
0,228							
			,				

Measured by: T.F.S.	Audited by:	Preliminary Approval:	
Date: 10/10/29	Date: 10.j0.29	Date:	

Rev	Date	Change	Revised by	Approved
E	10.04.14	Added preliminary approval	KJ	





# **Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES											
DATE	STEP	PRO	CEDURE CHA	INGE	Ву	Da	ate Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector				
								1 Tod Wigi					
Part No		PAR #:	Fault Cate	gory:	NCR: Ye	s No	DQA:	_ Date: _					
	R	esolution:	Disposition	n:	QA: N/C	Closed	d:	Date: _	<del></del>				
NCR:		\	WORK ORD	ER NON-CONFORM	ANCE (NO	CR)							
DATE	STEP	Description of NC		ection B Verificati			Approval	Approvai					
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sig Da	n &	Section C	Chief Eng	QC Inspector				
		·											
						-							
<u>-</u>													

4 3 5 A

**Receiving Report** Batch No: <u>M// 5717</u> Date: Supplier: Dart P/O: Packing Slip: Yes Release Note Attached: Yes N/A Waybill Attached: Invoice: Yes Receipt: Shipment Complete: Yes QC6 Inspection N/A Work Order N/AL Discrepancies 10/05/128 Part Quantity Quantity Quantity Quantity Description Comments Number Ordered Received Returned Short Initials of receiver (if shipment OK) Production/Admin: Date Location

H:\FORMS\Purchasing\approved purch\RECREPORT\_Rev.D -

Received/Costing

Initial

Page 1 of 1

Tuesday, September 28, 2010 9:54:05 AM

All amounts are calculated in domestic currency.

All Vendors PO ID PO12546 Receipt Dates from 9/28/2010 to 9/28/2010 All Line Item Types All Item ID/GL/WOs All Rec. Employees All Currencies

Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID\Ven	dor Nam	e VC-I	MAG002 Magna	Stainless				4			
PO12546	1		M303R1.000	f	9/15/2010	9/28/2010	24.0000	\$6.67	0.0000	0	\$160.00
CAD	No		303 Round Bar 1.00 115774	f	24.0000	DESJ02		\$160.00	0.0000	0	
									Total Received C	Total Received Quantity:	
								Total	Qty to Inspect (P	0.0000	
									Total Reject C	uantity:	0.0000
									Total Receip	t Value:	\$160.00
								To	tal Balance Due Q	nantity:	0.0000



**Magna Stainless** 

5775 Kieran St, Saint-Laurent, Quebec H4S 0A3
Phone: (514) 339-1211 Watts: 1-800-363-6646 Fax: (514) 339-1105



## PACKING LIST.

Page 1 of 1

I032914

SOLD TO: DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7 SHIP TO: DART AEROSPACE LTD 1270 ABERDEEN STREET HAWKESBURY, ON K6A 1K7



SPECIAL INSTRUCTIONS

\*\*\*\*STOCK\*\*\*

Contact: CHANTAL

Ship Terms: PREPAID

	Currency	Sales Po	erson	Customer Phone	Customer Fax	Custo	Customer PO		
CANADIAN DOLLARS		DAVE MC VETY	-	(613) 632-5200	(613) 632-105	53 12546			
Sales Order	les Order Terms		S	hip Via	Date Ordered	Date Required	Date Shipped		
W036086	NET 30 DAYS		NIR:R-55706	5-1	09/27/10	09/28/10	09/28/10		

Ordered	Back Ordered	Unit		Description	Bundle #	Heat #	Shipped
2		PC	STAINLESS ROUNDS SRB 303 1" x R/L	12' 66 LB / 2 PC	L043161 <sub>(</sub>	7HR9	<b>2</b> 2
				(10/2/20			
				·			
Bundles: 1					Approx	Weight:	66 LB

Received by:	Date:	Signature:
--------------	-------	------------

NAS	e:			
		•	•	
COMO ETTOTT	A TEE	X7 4	12 12	40

## METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS 6870 HIGHWAY 42 EAST **GHENT, KY 41045** 

6870 HIGHWAY 42 EAST Certificate: 587934 15

Customer: 007420 001

Mail To:

MAGNA STAINLESS

5775 KIERAN STREET SAINT LAURENT, OC H4SOA3 Ship To:

MAGNA STAINLESS

5775 KIERAN STREET

SAINT LAURENT, QC H4SOA3

Date:

9/23/2010 Page: 1

Steel: 303

Finish: ST

Your Order: P011558

NAS Order: IN 0102414 08

Corresion:

#### PRODUCT DESCRIPTION:

Round Bar, Ampealed, Smooth Turned, Cold Finished ASTM A582/05 ON 10204 3.1, ASTM A484/08 AMS 56400 TYPE 1, QQS-764B CONDITION A

#### REMARKS:

COMPLIES W/REQUIREMENTS OF DFARS EU DIRECTIVE 2002.95. EC. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size Weight	Length	Mark	Pieces	Commodity Code
BD2487 6	(1.0000	452	144.00	11	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

AT	CM	С	co	CR	CU	MN	MO	N	NI	P	
R9	บร	.0545	.1940	17.7785	.4260	1.7875	.2525	.0511	8.5545	.0285	
		S	SI						<del></del>		
		.3575	.4110							<del></del>	<u> </u>

#### MECHANICAL PROPERTIES

Product Id	1 0 c	_	HB No.	.2YS KSI	UTS KSI	RA %	Elng % 4D
BD2487 6	R	L	172.00	78.91	104.33	40.96	34.36

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

OC ENGINEER

12 16.

9/23/2010

ERIC HESS



## METALLURGICAL TEST REPORT

NORTH AMERICAN STAINLESS 6870 HIGHWAY 42 EAST

**GHENT, KY 41045** 

Certificate: 587934 16 Customer: 007420 001 Mail To:

MAGNA STAINLESS

5775 KIERAN STREET SAINT LAURENT, QC H4SOA3 Ship To:

MAGNA STAINLESS

5775 KIERAN STREET SAINT LAURENT, QC H4SOA3

Date: 9/23/2010

Page: 1

Steel: 303

Finish: ST

Your Order: P011558

NAS Order: IN 0102414 08

Corrosion:

### PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished ASTM A582/05 EN 10204 3.1, ASTM A484/08 AMS 5640U TYPE 1, QQS-764B CONDITION A

#### REMARKS:

COMPLIES W/REQUIREMENTS OF DFARS EU DIRECTIVE 2002.95. EC. ROHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product Id	Skid # Diameter	Size Weig	ght	Length	Mark	Pieces	Commodity Code
BD2497 1	1.0000		678	144.00	12	1	

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

HEAT	CM.	С	CO	CR	CU	MN	MO	N	NI	P
7HR9	US	.0545	.1940	17.7785	.4260	1.7875	.2525	.0511	8.5545	.0285
		S	SI		<u> </u>			<del></del>	<del></del>	
		.3575	.4110			· · · · · · · · · · · · · · · · · · ·			7	

### MECHANICAL PROPERTIES

Product Id	•	d 1 r	HB No.	.2YS KSI	UTS KSI	RA %	Elng % 4D	
BD2497 1	R	L	172.00	78.91	104.33	40.96	34.36	

NAS hereby certifies that the analysis on this certification is correct and the material meets the specifications stated.

OC ENGINEER

9/23/2010

ERIC HESS

Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7 Tel: 613 632 9577

### \*\*\*OUTSTANDING PO REPRINT\*\*\*

Purchase Order IDPO12546

Purchase Order Date 9/10/2010 PO Print Date 9/28/2010

Page Number 1 of 1

Order From:

VC-MAG002

MAGNA STAINLESS 5775 RUE KIERAN ST LAURENT, QC H4S 0A3 CA

Contact Name

Vendor Phone

800 363 6646

Vendor Fax

514 339 1105

Vendor, Account Nbr

Line Nbr Reference

Revision ID Vendor Part Number Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

Req Date/

Taxable

10127-2607 Net 30

Terms Currency

CAD

FOB

Req Qty

**Unit Price** 

**Extended Price** 

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

**CANADA** 

Line Nbr Reference Revision ID Vendor Part Number Description/ Mfg ID

Description/ Mfg ID

> Req Date/ Taxable

Req. Qty/ Unit of Measure Ship Method

**Unit Price** 

Extended

Price

M303R1.000

303 Round Bar 1.00

9/15/2010

Yes

24.00

Yours ppd

\$6,6667

\$160.00

Special Inst:

MATERIAL: 303 SS ROUND BAR

NOTE: AISI 304/316 NOT

**ACCEPTABLE** 

Line Total:

\$160.00

**Outstanding PO Total:** 

\$160.00

No substitution or deviation without consent.

Certificate of Conformity or Material Certification required when applicable

Change Nbr:

Change Date: 9/10/2010